



Lake Tahoe TMDL Update

California Regional Water Quality Control Board
Lahontan Region

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Core TMDL Questions...and Answers

What pollutants are causing Lake Tahoe's clarity loss?

How much of each pollutant is reaching Lake Tahoe?

How much of each pollutant can Lake Tahoe accept and still achieve clarity goals?

Draft Lake Tahoe TMDL Technical
Report



What are the options for reducing pollutant inputs to Lake Tahoe?

Lake Tahoe TMDL Pollutant Reduction Opportunity Report

What strategy should we implement to reduce pollutant inputs to Lake Tahoe?

Integrated Water Quality Management Strategy Report



Recommended Implementation Strategy Review

Continue stream restoration efforts

Focus on discrete disturbance in undeveloped areas

Emphasize dust control measures to address atmospheric fine sediment particle inputs

Implement innovative practices, policies, and operations and maintenance programs to treat urban stormwater



Recommended Strategy

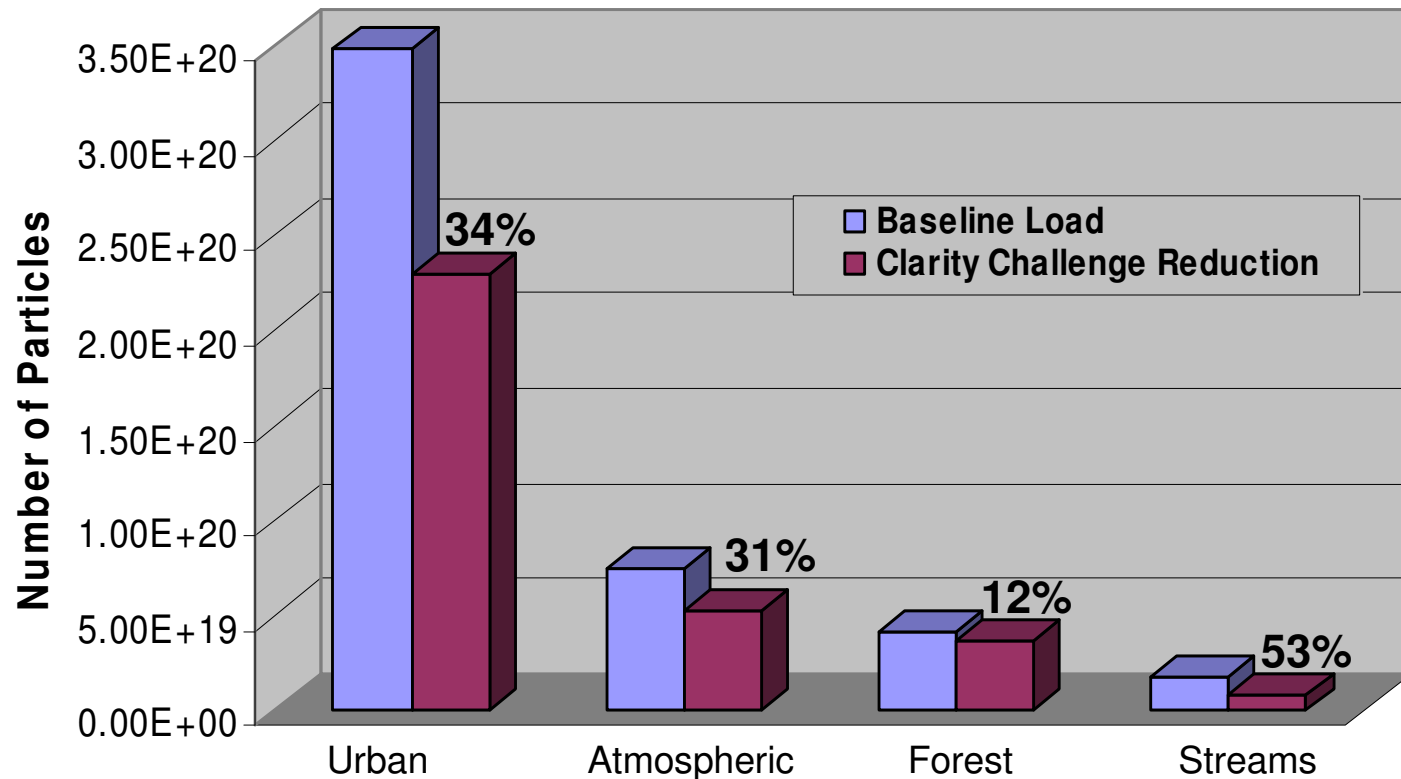
Percent Reduction of **Basin-wide** Particle Load

Pollutant Source Category	Recommended Strategy Load Reduction
Forest Uplands	1.0%
Stream Channel	1.8%
Atmospheric Deposition	4.6%
Urban Uplands	24.5%



Recommended Strategy

Particle Load Reductions by Source Category



Current Particle Load and Percent Reduction Target



Pollutant Load Allocations and TMDL Implementation

Focus on achieving the Clarity Challenge within 20 years

Follows Recommended Strategy

Includes load reduction milestones to chart progress

Base permit load reduction targets on TMDL milestones



Urban Load Regulatory Approach

Jurisdiction specific load allocations for urban sources

California: NPDES Permits, waste load allocations, and annual targets

Nevada: Memoranda of Implementation, load allocations, and annual targets



Lake Tahoe TMDL – What Next?

Draft TMDL

Draft Basin Plan Amendment

State of CA Peer Review

Agency and Public Review

TMDL Adoption



5 March 2009




Lake Clarity Crediting Program

Funded by US EPA Watershed Initiative Grant

Consultant team led by Environmental
Incentives, LLC

Supported/informed by in-basin advisors

Program to support implementation – LCCP
not part of TMDL document



Lake Clarity Crediting Program Overview

Link actions and activities in the urban landscape to fine sediment particle load reductions

Provide consistent load reduction estimates

Create a standard metric to track implementation progress

Share risks related to uncertainty and provide structure for adaptive management



Lake Clarity Crediting Program Goals

Motivate effective actions to improve lake clarity

Create incentives for innovation

Allow implementation flexibility

Facilitate multi-jurisdictional cooperation

Define permit and MOI requirements & assess progress towards meeting load reduction milestones



Lake Clarity Crediting Program Transition Plan

“Beta” test the LCCP

- Estimate load reductions since 2004
- Use estimation tools to assess credit potential

Draft NPDES Permits and MOIs

- Define appropriate load reduction targets
- Refine LCCP and estimation methods based on beta test feedback

Adopt Permits and MOIs

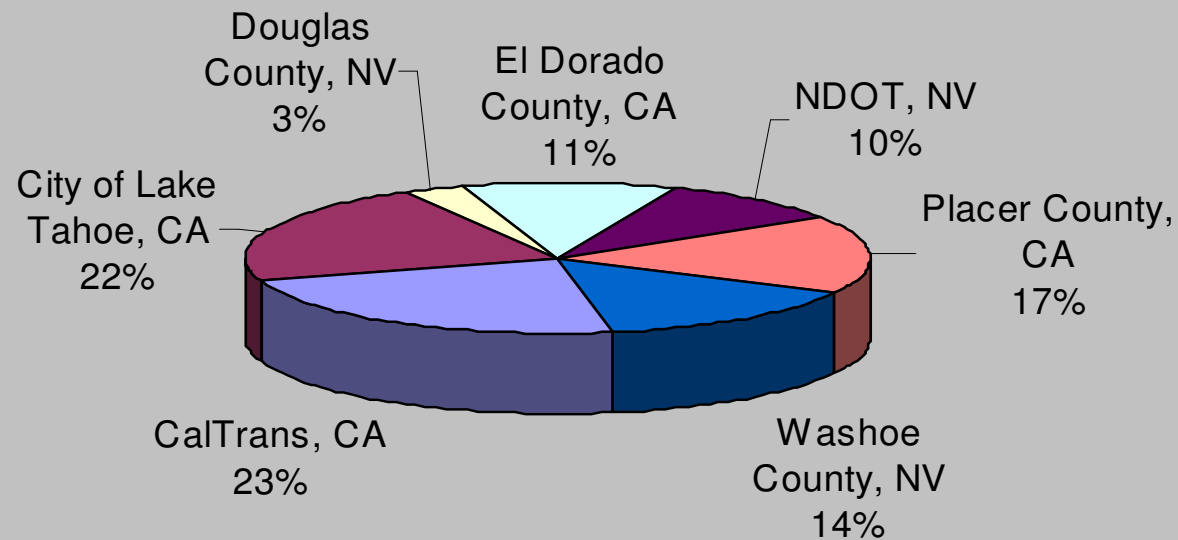
- Include credit targets and incorporate LCCP by reference



Questions?

Urban Particle Loads – How the 72% is Distributed

Urban Fine Sediment Particle Number Estimates - Percent by Jurisdiction





TMDL Milestones

Percent Load Reduction

